



Waterproofing Specification – Planter Boxes

Liquid Applied Membrane systems – Protected

SCOPE

Liquid applied membrane systems applied to suitably prepared substrates to form fully bonded seamless membranes on the positive side against water penetration.

APPLICATIONS

- Planter boxes

SUBSTRATES

Suitable substrates for the liquid applied membrane systems include

- Concrete
- Core filled and reinforced concrete block walls
- Brick walls that have been finished with flush joints and/or rendered

SUBSTRATE PREPARATION

Substrates to which the liquid applied membranes are to be applied must be structurally sound and free of all contaminants (e.g. laitance, form release agents). Contaminants are best removed, and smooth steel trowel finished concrete scarified by mechanical methods such as shot blasting, grinding, abrasive blasting and scarifying to achieve an open pored surface with a fine profile. The substrates should have completed the recommended minimum curing/drying periods (e.g. 28 days for concrete) with all holes/voids filled with cement based patching mortars (e.g. [ARDEX A 46](#) or [ARDEX BR 345](#)) and all surface protrusions ground flat. Ensure all drainage wastes are fitted with suitable flanges onto which the membrane can be terminated.

All internal corners are to be shaped using a rapid setting patching mortar such as [ARDEX A46](#) to form coving fillets (minimum 50mm x 50mm).

FALLS

To be created in accordance with AS4654.2012.

- Falls in finishes shall ensure water drains to the drainage outlet. Water shall not be retained on the finished surface with the exception of residual water remaining due to surface tension
- The fall shall be in the structural substrate or formed by a screed over the structural substrate.
- Falls for surface drainage should be no flatter than 1:100.

LIQUID APPLIED MEMBRANE SYSTEMS

- [ARDEX WPM 179](#) Bituminous latex – water-based membrane
- [ARDEX WPM 157](#) Polyurethane – solvent based membrane

These liquid applied membranes are to be applied in a minimum of 2 coats to achieve the dry film thickness recommended on the product data sheet.

PRIMING

[ARDEX WPM 179](#) is diluted with water (50%) to be used as a primer on dry porous substrates prior to the application of the undiluted [ARDEX WPM 179](#) membrane. New and/or wet concrete is primed with [ARDEX WPM 300](#) applied at not more than 3 sqm per litre and left to dry prior to application of the membrane



[ARDEX WPM 300](#) is also used to prime all prepared substrates prior to the application of [ARDEX WPM 157](#). The [ARDEX WPM 300](#) is applied at not more than 3 sqm per litre and left to dry prior to application of the membrane.

MEMBRANE INSTALLATION

Wet film thickness gauges are used to ensure the correct amount of materials is applied to achieve the recommended dry film thicknesses. Two coats (minimum) are recommended to ensure any pinholes are filled through the total membrane. The drying time between successive coats is 2-4 hours for the [ARDEX WPM 179](#) while second coat of the [ARDEX WPM 157](#) must be applied between 4 and 16 hours to achieve adhesion of the top coat to the first coat.

DRYING/CURING

Liquid applied membranes require time to cure and fully harden. Please refer to the individual product data sheets for the recommended curing/drying periods

MEMBRANE PROTECTION

The fully cured/dry membrane must be covered with protection prior to backfilling or placement of the topping screeds. Protective materials include;

- 5mm minimum thickness Geotextile fabric
- Ardex Protection Board
- Approved proprietary drainage cell systems. E.g. [ARDEX DRS 10/18 GC](#)

NOTE:

These ARDEX membranes are not UV stable and are not compatible with tile adhesives.

WARRANTY

1. [ARDEX WPM 179](#) Bituminous latex – water-based membrane - product warranty Period = **10 years**
2. [ARDEX WPM 157](#) Polyurethane – solvent based membrane - product warranty Period = **10 years**

Disclaimer:

The recommendation selected is based upon questions answered on the ARDEX Australia website. This recommendation is designed as a general application for your described situation and should not be considered site specific documentation for general distribution. Always consult the latest relevant ARDEX Technical Bulletins and information on the product packaging and/or product data sheets (available on the ARDEX Website). Australian and other relevant standards should be followed during installation. If you have any further questions or would like further clarification please contact the ARDEX Technical Services Hotline on 1800 224 070 (9am to 5pm Monday to Friday).